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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/621,875	07/16/2003	Jesse D. Wolfe	IL-10387B	1737
7590 01/03/2006			EXAMINER	
Eddie E. Scott			NADAV, ORI	
Attorney P.O. Box 808			ART UNIT	PAPER NUMBER
L-703			2811	
Livermore, CA 94551			DATE MAILED: 01/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/621,875	WOLFE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ori Nadav	2811				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 1) Responsive to communication(s) filed on 05 M. 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under E. 	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
 4) ☐ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 12. The oath or declaration is objected to by the Examiner 13. The oath or declaration is objected to by the Examiner 14. The oath or declaration is objected to by the Examiner 15. The oath or declaration is objected to by the Examiner 16. The oath or declaration is objected to by the Examiner 17. The oath or declaration is objected to by the Examiner 18. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner 19. The oath or declaration is objected to by the Examiner is objected to by the Examiner is objected to by the Examiner is objected to be the E	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prioring application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 3 and 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no support in the embodiment of figure 4C for a semiconductor device consisting of structural elements recited in amended claim 1 with the inclusion of an insulating layer, as recited in claims 9 and 13.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3-8, 10 and 12-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claimed limitations of a device consisting of structural elements as recited in amended claim 1, and having additional/multiple layers, as recited in claims 3, 5-8, 10 and 12-13, are unclear as to whether the device consisting of the elements recited in claim 1 or consisting of the elements recited in claim 1 or consisting of the

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 3-5 and 9, as best understood, are rejected under 35 U.S.C. 102(e) as being anticipated by Yamazaki et al. (6,306,694).

Regarding claims 1 and 3-5, Yamazaki et al. teach in figure 3B and related text a semiconductor device comprising a plastic substrate, a layer that can be damaged by pulsed radiation, a narrowband reflective coating layer, a transparent layer, and a layer fabricated with pulsed radiation, with said semiconductor device consisting of the structural elements located in the following order:

a plastic substrate 10.

a layer that can be damaged by said pulsed radiation (this layer includes all the transistor section located between the substrate and layer 151, since applicant states that a layer can be a combination of various layers), said layer that can be damaged by said pulsed radiation positioned above said plastic substrate and operatively connected to said layer fabricated with pulsed radiation,

a narrowband reflective coating layer 151, said narrowband reflective coating layer positioned above said layer that can be damaged by said pulsed radiation, positioned above said plastic substrate, and operatively connected to said layer that can be damaged by said pulsed radiation,

a transparent layer 157 (not shown in figure 3B), said transparent layer located directly above said narrowband reflective coating layer, and

a layer fabricated with pulsed radiation 158-165 (not shown in figure 3B), said layer that can be fabricated with pulsed radiation positioned above the plastic substrate,

wherein said narrowband reflective coating layer is positioned over said layer that can be damaged by said pulsed radiation for reflecting said pulsed radiation and protecting said layer that can be damaged by said pulsed radiation.

Although Yamazaki et al. do not explicitly state that layer 151 is a narrowband reflective coating layer, wherein said narrowband reflective coating layer reflects said pulsed radiation and protecting said layer that can be damaged by said pulsed radiation, these features are inherent in Yamazaki et al.'s device, because layer 151 comprises the same material as that of the claimed layer.

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Regarding the claimed limitations of a layer that can be damaged by pulsed radiation, and a layer fabricated with pulsed radiation, these would not carry patentable weight in this claim drawn to a structure, because distinct structure is not necessarily produced. Note that a "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17 (footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); and In re Marosi et al., 218 USPQ 289, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that the applicant has the burden of proof in such cases, as the above case law makes clear.

Regarding claim 9, Yamazaki et al. teach in figure 2C and related text an insulating layer 118 operatively connected to said layer that can be damaged by said pulsed radiation, and operatively connected to said narrowband reflective coating layer, for reflecting said pulsed radiation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 6-8 and 10-13, as best understood, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki et al. (6,306,694).

Regarding claims 2 and 10-11, Yamazaki et al. do not teach a layer that can be damaged by said pulsed radiation is low temperature plastic and polyester. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a layer that can be damaged by said pulsed radiation being low temperature plastic and polyester in Yamazaki et al.'s device in order to use the device in an application which requires protection for these specific materials. Note that substitution of materials is not patentable even when the substitution is new and useful. Safetran Systems Corp. v. Federal Sign & Signal Corp. (DC NIII, 1981) 215 USPQ 979.

Regarding claims 6-8 and 12-13, Yamazaki et al. teach a reflective coating layer comprises the materials SiNx and SiO2. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a reflective coating layer comprises the materials HfOx and SiO2, in Yamazaki et al.'s device in order to provide better protection for the device. Note that substitution of materials is not

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patentable even when the substitution is new and useful. Safetran Systems Corp. v. Federal Sign & Signal Corp. (DC NIII, 1981) 215 USPQ 979.

Regarding claims 7-8 and 12-13, the claimed limitations of a reflective coating layer that has a high reflectance in the UV, greater than 70% for wavelengths between 300nm and 335nm, these features are inherent in Yamazaki et al.'s device, because Yamazaki et al.'s structure is identical to the claimed structure.

Regarding the process limitations recited in claim 10 ("a layer fabricated with pulsed radiation that has been fabricated with high intensity radiation sources"), these would not carry patentable weight in this claim drawn to a structure, because distinct structure is not necessarily produced. Note that a "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17 (footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); and In re Marosi et al., 218 USPQ 289, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that the applicant has the burden of proof in such cases, as the above case law makes clear.

Response to Arguments

Applicant's arguments with respect to claims 1-13 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ori Nadav whose telephone number is 571-272-1660. The examiner can normally be reached between the hours of 7 AM to 4 PM (Eastern Standard Time) Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

O.N. 12/28/05 ORI NADAV
PRIMARY EXAMINER
TECHNOLOGY CENTER 2800

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